



ISM Med

at all levels.

Our solutions are based on high end technologies working in harmony with services such as logistics, inception and after-sales services.

ISM MED is a one-stop shop for Providing crisis management solutions healthcare and life support solutions. based on hardware and software, Whether you are looking to equip designed for disconnected areas that a medical centre or execute a large have been affected by man-made or healthcare project, we have the natural disasters. We have extensive flexibility and experience to respond experience in the Africa operational environment and our teams are spread over the continent, with fast abilities to respond to every requirement and need.

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Full Hospital Solutions	22
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At ISM Med, our purpose is to impact people's lives by improving their health and well-being through quality and innovative solutions.

02. **Full hospital solutions**

- · Flat Pack hospital solution
- Full turnkey solution based on tents and containers
- · Negative pressure chambe
- · Negative pressure Inflated
- · Containerized clinics and h

Crisis Management Deployment Solutions

- · Emergency Shelter
- · Fast Deployment of medical sites
- · Logistics and Supplies
- · Power, Water &
- **Communication solutions**
- · Search & Rescue









Governments





Private Organizations



NGOs





Displacement Monitoring Centre Report, 2.7 million people were displaced from their homes in Africa, in the first half of 2017, three quarters of whom were due to conflict and violence.

> Food insecurity remains a priority in East & West Africa, alongside internal population displacement.

These crises require effective management tools, resources, technology skills and effectivelu combat their disastrous effects to businesses, populations and economies.

capacity

support crisis response in health and food security, which are two major areas of crisis in Africa.

ISM has developed effective FDCMs aimed at helping governments and organizations to anticipate, plan and respond appropriately to disasters in order to lessen their disruptive effects.

We provide solutions based on hardcore and software designed for disconnected areas that have been harmed by floods, landslides, drought, earthquakes, fire, conflicts, tsunami, monsoons, terrorism, political violence more that threaten life, property and the environment itself. We have extensive experience in the Africa operational environment. Our teams are spread over the continent with fast abilities to respond to every requirement and need.

ISM Africa has credible capability and ISM has a 20year combined Camp construction project experience, to covering the East African region. Providing a full turnkey solution, including design, module

> and site installation. Working with various sectors including, Energy, Mining, Engineering, Defence,

Hospitality. Offering a range of solutions for fast, economical, and robust construction. Using the latest technologies provide comfort even in the harshest of environments.

Introduction

A crisis is any situation that threatens or can potentially threaten to harm people, property, reputation, or interrupt business continuity.

The import of crisis management has become noticeably clear to businesses following large-scale disasters dating back to the 1980s. In most recent times, disasters such as the 911 terrorist attack, floods, Tsunami and Hurricane Katerina have impacted environments and humans alike, necessitating better ways to support businesses, people and countries that have experienced disasters.

While there are several crises such as food and health crisis in Sub-Sahara Africa, political violence and armed conflict is the greatest contributor of crisis. The crisis in the DRC, CAR, The Rwanda Genocide, Kenya's Post-Election Violence of 2007/8, Ethiopia civil war, South Sudan, Sudan, Mali, Burundi, Nigeria's Boko Haram, Cameroon, Somali, among others have caused displacement of people and loss of livelihoods amongst others. According to Internal



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SOLUTIONS

Emergency Shelter

Fast and secure accommodation deployment for disaster areas for people who have lost their shelter. The options available for the shelters are tents, inflatable tents and shipping containers. This comes with necessities like blankets, food rations, utensils and more.

The construction withstands adverse environmental conditions. Walls and roof are insulated, fire resistant and rainproof.



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Fast deployment of medical sites

We set up fast deployment of medical stations based on various options for hospitals and clinics as follows:

- A Flat Pack hospital solution
 - Full turnkey solution based on tents and containers
 - Chambered negative pressure solutions
 - Inflated tents negative pressure solutions
 - Containerized clinics and hospitals for ICU including for special negative pressure systems.

All the solutions can be extended to any number of beds as per requirement.

The turnkey projects include fully equipment complete hospitals, and clinics That have the following:

- •ICU tent (Low pressure zones with HEPA filtration for patients with respiration needs)
- Fully equipped Laboratory
- X-Rau
- Sterilization
- Morgue
 - All circulation areas heavy duty tents
- Laundry
- Cold storage rooms
- Staff accommodation areas
- Kitchen areas
- Other facilities as may be required. are insulated, fire resistant and rainproof.

All our solutions include full offering of ICU beds, ICU equipment (defibrillators / ventilators / patient monitors) and any other equipment required for the operational status of the facility like beds and more.



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Logistics and supplies- Life support, food and pharmaceuticals

While a crisis toolkit may contain various action plans, it still requires decision making when implementing it. Some crises are reactionary, like an earthquake or fire. Other times, with pending hurricane or snowstorm, you may get a few days to plan.

We immediately open supply routes of necessary items like food, medicine and other necessities to the location using air support.



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Power Solutions

We utilize the Rei photovoltaic (PV) ready to rapidly extract and integrate with a choice of solar inverters, battery energy storage systems, controllers and distribution panels, and generators to form hybrid multi-source power plants.

Similarly, the arrays are designed for rapid retraction and re-loading to the dedicated containers for protection or for re-location as may be planned or as circumstances may change. Additionally, there is utilization of generators to support the solar energy for power production.

Generator Specifications

- Water Output/24 hrs (@80%RH and 90°F/32°C) 150 gallons (568 litres)
- Operating Range Relative Humidity 28% to 96% RH
- Operating Range Temperature 50°-110° F (10°-43° C)
- Water Storage 11 gallons (42 litres)
- Electrical Supply 380V/50Hz three phase
- Kilowatts to run 6.3
- daily kWh requirement 152
- Dimensions (inches) **64" x 74" x 43"**
- Dimensions (metric) (163 x 188 x 109 cm)
- Weight 1695 lbs (768kgs)
- Refrigerant Type* R410A R32

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Water filtration solutions

Clean and safe drinking water is provided through the NUF filtration solution and TOMCAR water purification solution.

NUF250 water purification

The NUF250 system is designed to treat surface water by means of a unique membrane separation process, based on the NUFTM membranes separation technology. The NUFTM technology ensures production of high-quality water in the strictest range of Ultrafiltration.

TOMCAR water purification

This water purification process is a unique, independent, integrated water purification system designed to produce high-quality drinking water (per World Health Organization standards). It can produce potable water from any contaminated water source (22,000 GPD) or seawater (5,500 GPD).





Search and Rescue

This involves locating and evacuating.

• Boats -For rescue in flooded areas

• Tracing technology – search and rescue of trapped/missing people by accurate Geo location of their cellular phones. Handheld homing device for final close-range access to targets.

 Monitoring Trailer-To monitor incoming and outgoing traffic in an organized manner anywhere, anytime. A mobile tactical trailer for immediate surveillance needs that can track and monitor large number of people and goods within a wide radius.

CMD SOLUTIONS

ISM Medical Solutions 17

 Rescue trailers -Self-contained trailer equipped with 2G and 3G LTE passive, active DF sensors.

 Air evacuation - We provide contingency planning for air evacuations that fit into your existing plans, or we will create stand-alone plans that can be implemented immediately by our 24/7 dedicated response team.

> Tracing technology – search and rescue of trapped/missing people by accurate Geo location of their cellular phones. Handheld homing device for final close-range access to targets.



CMD

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Our command and control

We manage the whole scenario from our front Phase 2 - we dispatch immediate on ground command and control center in Israel. With the most updated equipment and capabilities, we can control the movement of the forces on the ground and get the best and most updated **Phase 4** - Strategic planning (after 3 weeks). picture of the exact situation.

Technologies

- Communication technologies
- Tracking technologies
- Water Technologies (NUFF)
- Search and rescue technologies

How we Execute

Our solutions are done in 4 phases.:

Phase 1 - we collect information on the event,

team.

Phase 3 - tactical planning (up to 3 weeks),

Our Coverage

We are based out of three locations namely Kenya (Tier 1); to cover East Africa, South Africa

(Tier 2) to cover the southern part and CAR (Tier 3) for the Central part of the Africa.

Additionally, we have other teams in various other areas who are activated when required.

Commercials

- Access to our service is via annual, partannual or multi-year contracts for global cover
- Priority phone line to our 24-hour Kenyan based operations centre, access to credit for faster evacuation, bespoke air evacuation plans and access to emergency services.
- Personal, named contact service and highly flexible options.



Off-Grid Tactical Communication Platform

OFF-GRID is a compact LTENetwork-in-a-Box (NIB) that provides fullyindependent, high-speed broadband communications. Designed as an advanced communications solution. It creates a private secured network within seconds, is lightweight and easily deployed.

- **HLS Private Secure Network** gives Improved coverage over a private network.
- Military/Tactical Coverage provides secured coverage over a private network Off the Grid.
- Emergency Disaster Coverage
 Providing coverage over a private network for search & rescue teams.

Whether responding to a civilian emergency operations, when communications infrastructures are unavailable, damaged or completely down, *OFF-GRID* provides a reliable mobile network that can withstand even the most challenging of circumstances.

It is part of an advanced, field-proven product line. Based on LTE technology and operated through a simple and intuitive user interface. It is compatible with any endpoint device, including smartphones, tablets and dongles.

Customizable and available in various configurations, the network also supports secure interoperability between different communications platforms and forces, and includes various backhauling capabilities.



SOLUTIONS **SOLUTIONS**

Autonomous Tactical Trailer

AUTONOMOUS TACTICAL TRAILER. Thanks to technological advancements and intelligent human engineering, it is now possible to monitor incoming and outgoing traffic in an organized, effective and fully documented manner, in real timeanytime, anywhere, in urban and open areas, including bustling public places, remote locations and border posts.

It's time to discover the OTHT - an autonomous mobile quickly deployed tactical trailer for your immediate surveillance needs that can track and monitor large numbers of people and goods within the area of interest.

The Trailer is designed to operate 24 hours a day, 7 days a week in all weather and low light conditions. Photograph and surveillance 360 of the specified area with the option to quickly zoom to any point, as needed, or based on predefined alert.

Basic features include:

- 4 HD cameras with night vision, with a transmission range of 600 meters during the day and 200 meters at night.
- HD PTZ camera with a radius of up to 3 km during the day and 600 meters at night.
- 1 public address (PA) system
- 1 stainless steel mobile trailer with solar panels and large energy bank.
- Back-up generator
- Multiple optional sensors.



FULL HOSPITAL SOLUTIONS

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Flat Pack hospital solution

The Flat-pack Prefab House is a kind of modular prefab structure, consisting of light steel frame and thermal insulation material. It is a new type of energy conservation and environment protection house which is easy and convenient to install.

The Flat pack structure enables the containers to combine in longitudinal and transverse directions without limits or be stacked in 2 floors or 3 floors in height.

This product is widely used in temporary buildings, such as hospitals or clinics, offices, storage, canteen, economical hotels, etc.

The product service lifetime is about

15 years.



Product Features

Easy to transport

Flat pack containers are highly prefabricated, the roof frame and floor frame can be packed and load into 40HQ shipping containers, which makes them suitable for ocean freight. Each 40HQ shipping container can load 3~6 flatpacks. Upto 75% transportation cost can be saved compared with traditional building or modified containers.

Four skilled workers can finish assembling one standard unit within 2.5 hours. Up to 40% time saving on construction over traditional building

Flexible combination

Multiple modular building can be easily created by stacking and interlinking units together. Internal wall panels can be removed and changed at the clients' discretion to provide flexible layout options.

Green and sustainable

The steel structure of cabin can be recycled. Our manufacturing facilities are energy efficient with strict governance on wastage of materials and water supply.



FULL HOSPITAL SOLUTIONS

Full turnkey solution based on tents & containers

Designed for long-term operation, it has the same features as a purpose built hospital due to the many materials used to provide excellent inside insulation from outside conditions, affording a high degree of comfort and hygiene.

The turnkey hospital solution is designed to work in adverse climatic conditions (+55°C - 36°C) and wind speeds of over 105 km / hour.

Depending on requirements, the tents can be combined with multi-purpose expandable containers.

Hospitals are delivered "turnkey" including all the clinical and logistic elements.





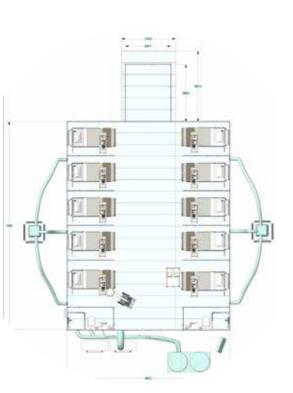


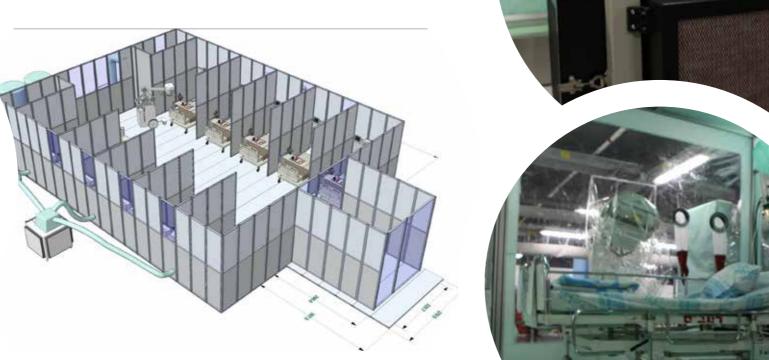
Chambered negative pressure solutions

ISM Med Negative Pressure, Flexible-Film (Softwall) restricted access barrier containment units are designed to protect workers and prevent the release of highly pathogenic organisms or highly potent compounds into the surrounding environment.

Some of the features of the ISM MEd softwall (flexible film) containment units include:

- System is run under negative pressure.
- A totally contained chamber, the system does not use the laminar airflow design (the chamber is completely enclosed).
 - HEPA inlet and outlet filtration system.
 - Large removable doors for moving caging or supplies in and out of the unit.
 - Portable.
 - Air handing system automatically turn off the inlet supply when the door is opened or the pressure increases to almost the ambient room pressure, thus maintaining the negative or inward airflow.
 - An alarm system in case of power or blower failure.
- Durable 20 mil. polyurethane for sidewalls and ceiling.
- Strong 30 mil. polyurethane flooring (can stand up to heavy caging systems).
- Lap Seam construction.
- Resealable snap loops for easy assembly and disassembly.
- \bullet $1^1/_2$ " anodized aluminum tubing used for
- Provides a restricted access barrier.





FULL HOSPITAL SOLUTIONS

Inflated tents negative pressure solution

In these unprecedented times, there is a requirement for temporary structures with negative pressure to ensure contagion free environments.

Our Inflatable Negative Pressure tent is a customizable, mobile, and easy to install.

The solution involves a large Inflatable tent with pass boxes on the side of the tent wall for access pipes and electrical ducting which is required to create a negative pressure room.

It is used to contain airborne contaminants such as viruses, bacteria, pollens, gases, VOC's (volatile organic compounds) and chemicals.

Hospitals use isolation rooms which are negatively pressurized with respect to adjacent areas to prevent airborne contaminants from drifting to other areas and contaminating patients, staff and sterile equipment.

Negative pressure tents can be set up outside hospitals and clinics so that potential COVID-19 patients can be screened in a free-standing facility without the risk of spread to others.

Other uses are:

- ICU rooms
- Emergency Department Public Waiting Areas
- Triage
- Laboratory Work Areas
- Autopsy Rooms

FULL HOSPITAL SOLUTIONS



FULL HOSPITAL SOLUTIONS

Containerized clinics and hospitals

Containerized Prefab Building is a custom product based on the ISO shipping container. Openings can be made on the containers to install doors and Windows according to the requirements.

All the work can be completed in the factory including insulation and decoration, even installation for furniture and sanitary fittings. After protecting the openings, the modified container can be transported as a ISO shipping container.

This product is widely used as semipermanent buildings, such as offices, cafes, clinics, hospitals and more.







Four-wheel-drive ambulances play a vital role in providing medical assistance to those living in areas not normally accessible by normal city-bound ambulances. The Toyota Land Cruiser Hardtop Ambulance provides a real lifeline to those in rural communities in need of urgent medical attention and is the preferred four-wheel-drive ambulance among aid agencies working in the developing world. The ambulances are fully equipped.

The equipment in the ambulance include:

- - Comprehensive First aid kit
 - Disposable Oxygen mask
 - Gray covers for stretchers
 - Isothermic silver/gulded covers
 - Ferno set attelles vacuum ASI90GR
 - Multiparameter patient monitor
 - Biphasic Defibrillator
 - Electrocardiograph (ECG)

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MOBILE MEDICAL SOLUTIONS



Following the COVID 19 pandemic ongoing situation and through our various trading partners globally, we have been supplying and providing solutions for the medical sector globally.

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We deal in a wide variety of personal protective equipment critical to the safety of healthcare workers while they execute their duties.

We specialize in the following solutions:

- 1. Protective Gowns (L1/L2/L3/L4)
- 2. Protective coveralls (L1/L2/L3/L4)
- 3. Protective masks (3ply / N95 / KN95)
- 4. Protective Gloves (Nitrile/PVC/Latex)
- 5. Face-shields
- 6. Medical ventilators
- 7. PCR machines
- 8. Rapid Corona Test kits

All our products are CE and FDA certified to full medical category. We can provide CIF and FOB Terms as well as escrow and LC terms of payment.

We have straight allocations with the manufactures and large

distributors.



Disposable 3ply facemask

- BFE99
- 3 layers Outer layer is 28g non woven, Middle layer is BFE 99% Meltblown cloth,inside layer is 25g non woven
- Can be used for 3-5 times with proper disfection

COVID-19 **SOLUTIONS**

KN95 Mask

- KN95
- FFP2 Standard
- With CE certificate



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Medical Ventilator

Overview

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- Turbine Sub-acute ICU ventilator
- CE marked
- Target middle-high market
- Has comprehensive functionality, a user-friendly design
- Full of high-quality, reliable treatment options for the clinician

Drive mode:

- Built-in low noise turbine
- Lifetime over 30,000 hours
- No request for air compressor

Scope of application:

- ICU, Respiratory Department or Emergency Department
- For the rescue and therapy of the patient with respiratory insufficiency
- Other departments for providing respiratory support for the patient.



COVID-19 SOLUTIONS

PCR Test Kits

Easy

- Simple 1min hands-on time preparationMinimal training required for operation
- Automated result interpretation

Rapid

- Sample to result in 20min
- Process more samples in less time
- Improved patient management and triage

Versatile

- Can be deployed anywhere
- No additional equipment needed
- Room temperature storage –tests ready for use anytime

SARS-CoV-2 Antigen Test

- Sample type: Nasal and nasopharyngeal swabs
- Time to result: 12 minutes
- Result display: Qualitative positive or negative
- Storage temperature: 2-30 °C (36-86 °F)
- Operating temperature: 15-30 °C (59-86 °F)
- Interferences: See LumiraDx SARS-CoV-2 Ag Test Product Insert for details
- Onboard control: Onboard Quality Control (OBC) assay and sample processing control.
- Quality control material: Positive and Negative external liquid controls
- Validated swabs: **See swabs technical bulletin at lumiradx.com

Gloves

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Nitrile

- Art.Name :Nitrile gloves, without powder Length: 240mm
- Weight: 3.5g/pair
- Material: Nitrile
- Size: S/M/UXL
- Feature: acid and alkali resistant,good resilience, solid and durable, No Allergic Color: blue/ white/black.
- Packing: 100pcs±2pc/box, 10-20box/ctn
- Palm Size:
- <Bern S szie
- 8- 9cm M size
- 9- 10cm L size
- White/ Blue M size is 3.5g
- Light blue/ Dark Blue higher thicker is 4.5g
- 121nch Blue/white gloves higher thicker is 0.7g



COVID-19 **SOLUTIONS**

Pre-Powdered Latex Examination Gloves

- Type: Pre-Powdered and Non-Sterile
- Material: Natural Rubber Latex
- **Donning Powder**: Bio-Absorbable USP Cornstarch
- Colour: Natural
- •Sizes: X-small, Small, Medium, Large, X-Large
- **Shape**: Ambidextrous
- **Cuff**: Beaded Cuff
- Surface: Smooth, Textured
- Quality System: ISO 13485: 2003 GMP
- **Usage**: For Single use only
- Packaging: 100 gloves per dispenser box, by weight
 - 10 Boxes per case
 - Minimum Order: One Full container load

COVID-19 **SOLUTIONS**

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Ergo Air

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Ergoair's Tri-Active Antimicrobial Filter is new air filter technology which was tested by National Institute of Occupational Health (NIOH) to be 98.68% efficient within 60 minutes of the Ergoair model GRC-8-18 activation at their test facility. The design incorporates a fusion of carbon and carbon Nano particles in several forms including carbon, graphene and Nano tubes. These Nano particles are bonded to each other and permanently onto the pleated filter medium via a special sequence and adhesion method. The Ergoair Antimicrobial Filter furthermore incorporates low current pulsating electronics, localised on the panel which evenly distributes a low current across the entire surface area of the carbon filter.

A washable pre-filter is installed before the Ergoair Antimicrobial Filter to remove larger particles for extended life and optimum efficiency of the graphene filter. Antimicrobial ceiling mount units incorporate a combination of mediums and technologies to:

- Cost effectively filter and purify the air you breathe.
- Kill all filtered and trapped microorganisms.
- Eliminate risk of recontamination during maintenance



PAST PROJECTS

DOLE Hospital, Philipines

Solution: A full COVID-19 Hospital

We have designed and supplied a full equipped hospital including but not limited to negative pressure tents, special chambers, ventilators, monitors, defibrillators, beds, personal protective gear and consumables all delivered and assembled. We have also provided 3 PLY protective mask factory and the raw materials that come with it for 5 million masks. ISM covered the full scope of design, delivery assembly and commissioning of the hospital covering 60 beds.

Goodlife Pharmacy Africa

Solution: A Pharmacy

Two connected 20ft Containers were converted to state of the Art Pharmacy. The pharmacy has store area, Lab room and consultation room.









LACOR

PAST PROJECTS

The IMA World Health



Solution: Emergency Clinic

- Design & building of mobile medical health clinics
- 4 Rooms : Waiting room, doctor's surgery, delivery room and a drug dispensary
- Sourcing of the equipment, furniture and appliances
- Install solar power for running basic appliances and lights in the prefab clinics

The IMA World Health gave ISM a brief to design and build mobile medical health clinics in South Sudan. The IMA World Health organization help to build healthier communities by collaborating with key partners to serve vulnerable people. The IMA vision is health, healing, and well being for all.

ISM felt very privileged to help assist with such a worthy cause. During the civil war in 2013/2014 over 300 medical facilities were looted or completely destroyed. The IMA World Health aimed to replace and restore these facilities, by using a mobile facility.

Medical Equipment

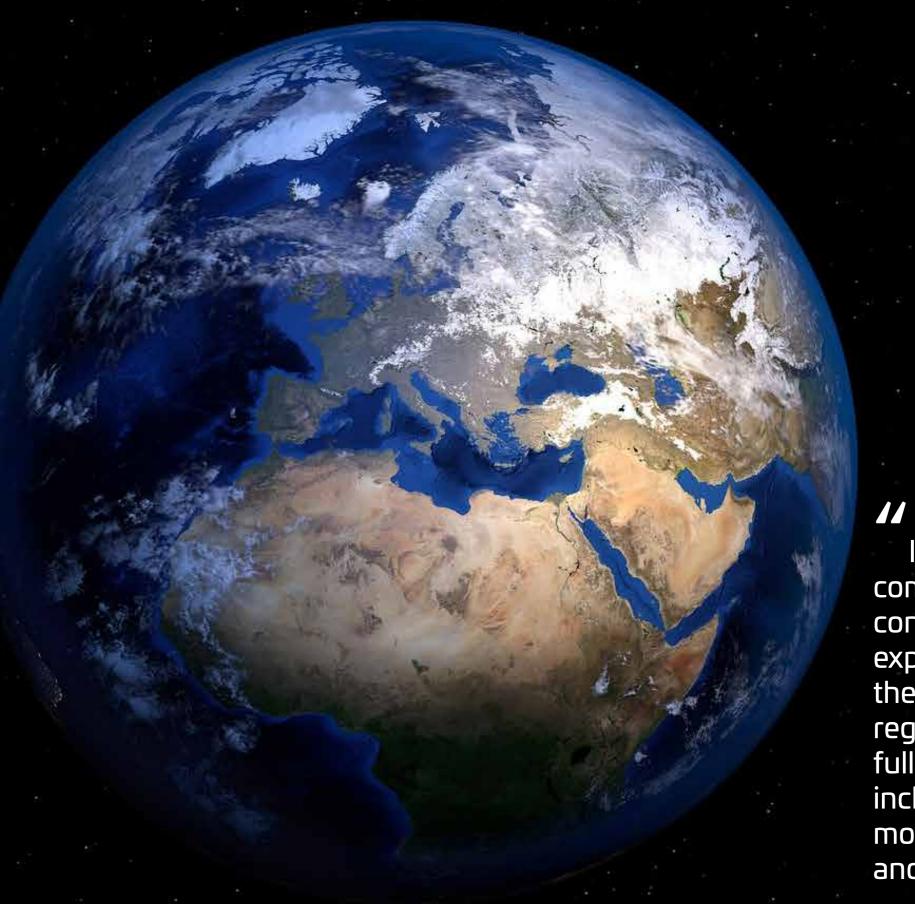
- PCR Machines and test kits
- SARS-CoV-2 Antigen Test
- Medical Ventilator

Other Clients

- Canon Medical Holland
- Lacor Hospital Uganda
- UCS Procurement Ltd
- International Federation of Red Cross and Red Crescent Societies

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ISM MED is a one-stop shop for healthcare and life support solutions. Whether you are looking to equip a medical centre or execute a large healthcare project, we have the flexibility and experience to respond at all levels.



ISM has a 20year combined Camp construction project experience, covering the East African region. Providing a full turnkey solution, including design, module manufacture and site installation





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